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## **13.0 Strengths, Challenges and Emerging Issues with HMS Data Management. Russ Vetter**

### **Strengths:**

1. Maturing and Clearer MSRA regulatory structure and rising profile of HMS with PFMC HMS-FMP and maturing of ISC and RFMO's increases demand for research and data products.
2. Movement from monitoring to formal management increases demand for higher precision data products to assess effects of management.

### **Challenges:**

1. Loss of staffing and infrastructure limits the maintenance of existing data streams and prohibits improvements in data collection, e.g. electronic logbooks.
2. Loss of corporate experience and institutional wisdom limits voices of constituent concerns both Fisheries and NGO.
3. erosion of capabilities and vision among state, academic and international partners (who is actually studying the biology of the open ocean?)

### **Emerging Issues:**

1. Northern bluefin overfishing and overfished requires fresh thinking and improvements in monitoring.
2. Decay of swordfish fishery due in part to non-constructive, win-win approaches to bycatch.
3. Long shadow from non-constructive approaches to marine mammal bycatch limits future work on tuna and tuna-shark, billfish bycatch issues and even affects CPS.



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### **Strategies to Consider:**

1. Fill vacancies, in particular those in assessment, data management and life history.
2. Reconsider Monitoring Obligations of lesser importance (shed SPTT data management?)
3. Reinstitute a more defined HMS entity with clear goals and funding.



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